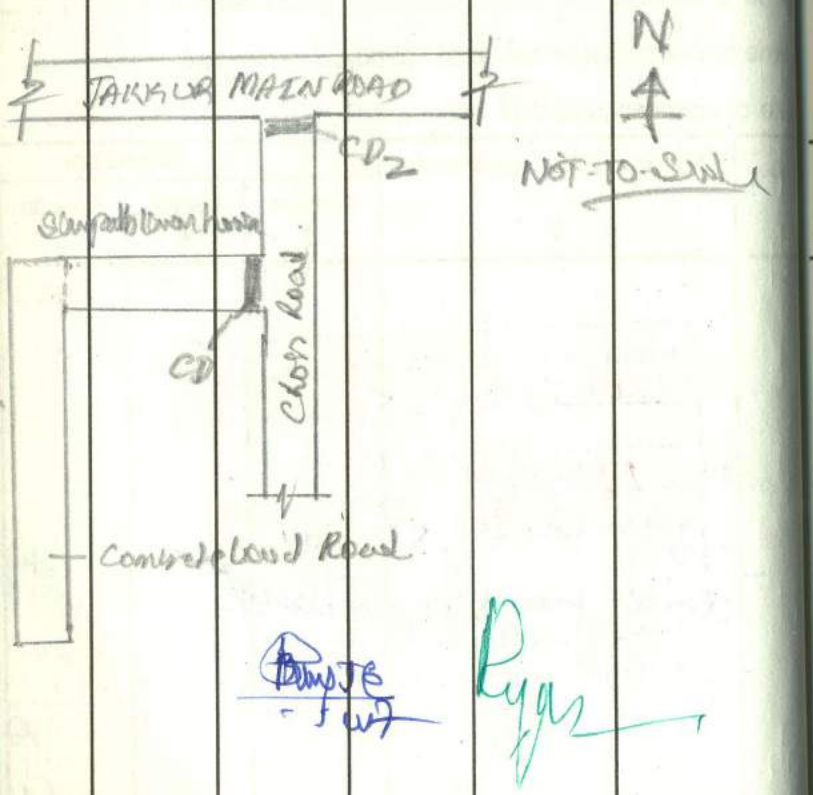
EASUREMENT BOOK

Dimensions				Contents	Reference to last Measurement
umber 3	Length 4	Breadth 5	Depth 6	7	8



NOT-TO-SCALE

N

BR-38/304/15

M.A.R. 57 (Rule 116)

Measurement Book · No. A/11

192040

Serial No. first & final Bill R/d 25/04/15

Name of work Improvements to Roads from 18th Cross behind Sampath Kumar House to Takkur Layout in ward no 7 Byatarayanapura

Name of Contractor of nature of Agency Codigehally Sub-division Estd Cost 6.0 Lakhs

Date of commencement of work

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Job No: 007-15-00016						
	AS No: JC(Y) AS No/38/2014-15						
	TS No: EE(BTP)/TS No/112/2014-15 dt 29/10/14						
	Agency: B.M. Mumtaj Contractor						
	Work order no: EE/BTP/BBMP/EPMT/266/2014-15						
(1)	Ew excavation and forming in embankment by means manually in ordinary soil with initial lead upto 15m and lift 1.5m (When earth is taken from						
	Complet as per Specifications.						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Qty is recorded in this MB vide page 19 2078 Qty is 23.34 Cum Qty limit to 21.0 Cum @ 102/-					Rs 2142=00	
	2. Compaction of original ground with max 6 passes of 8 to 10 tonnes power roller including filling depression during rolling including cost of all labour. Hom of machinary complete as per Specifications Qty is same as item no (1) 21.0 Cum @ 4.7/-					Rs 98=70.	
	(3) Extra for wodering the earth to bring the earth upto required optimum moisture content with machinary including cost of all labour Complete as per Specifications						

M.A.R. 5

Measu

Serial No.....

Name of work.....From

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number
1	2	3
	Qty same as	
(4)	providing and laying PC Cement concrete of nominal and down size graded g mixed, Concrete laid in 15cm thick, Vibrated for per Specifications	

MEASUREMENT BOOK

Dimensions				Contents	Reference to last Measurement
Number 3	Length 4	Breadth 5	Depth 6	7	8
is recorded with this MB vide page 192078					
Qty limit to 21.0 Cum @ 102/-				Rs 2142=00	
inal ground with max 6 passes power roller including filling thing including cost of all chinary complete as per					
Same as item no (1) 21.0 Cum @ 4.7/-				Rs 98=70.	
the earth to bring the earth um moisture content with ng cost of all labour specifications					

M.A.R. 57 (Rule 116)

Measurement Book · No. A/11 192041

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Qty	Same as item no (1) @ 2.26/-			21.0	Rs	47=67
(4)	providing and laying PCC position reinforced Cement concrete of nominal mix 1:1:2 with 20mm and down size graded granite metal mix mixed, Concrete laid in layers not exceeding 15cm thick, Vibrated for walls complet as per specifications						
		1	18	4.8	0.15	12.96	
		1	30	4.9	0.15	22.05	
						35.01	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		Qty	limit	31.50 Cum			
			@	6594.55/-		Rs	207728=00
	(5) providing and laying cement Concrete using 20mm and down size granite jelly of RMC for RCC works laid in 15cm thick layers and well Compacted including vibrating curing etc including ~~Smooth~~ finish in Cm 1:3 with all lead and lift Complete as per Specifications.						
		1	18.0	4.8	0.10	8.64	
		1	30.0	4.9	0.10	14.7	
						23.34	
		Qty is limit to 21.0 Cum					
			@	6136=55/-		Rs	128867=00

M.A.R. 57 (R

Measurement

Serial No.....

Name of work.....From.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimen
		Number	Length
1	2	3	4
	(6) Vacume dewatering with vaccum mat and Compaction with 8in floating disc Including Cost of as per Specifications		
		1	18.0
		1	30.0
		Qty limit t	
		@ 10	

ASUREMENT BOOK

Number 3	Dimensions: Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
Qty limit	31.50 Cum				
@ 6594.55/-				Rs	207728=00
ement Concrete using 20mm and					
y of RMC for RCC works					
Layers and wall Compacted					
ring etc including Smooth					
with all lead and lift					
ecifications.					
1	18.0	4.8	0.10	8.64	
1	30.0	4.9	0.10	14.7	
				23.34	
Limit to 21.0 Cum					
@ 6136.55/-				Rs	128867=00

M.A.R. 57 (Rule 116)

Measurement Book No. A/11 192042

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
(6)	Vacuume dewatering with vaccum pump and Suction mat and Compaction with Skin floated Clubbed with floating disc Including Cost of generator Complete as per Specifications						
		1	18.0	4.8		86.4	
		1	30.0	4.9		147.0	
						233.48qm	
		Qty limit to 210 Sqm					
		@ 102/-				Rs	21420=00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(7)	Providing groove cutting for width of 5mm to 10mm and depth 30mm-100mm including Cost of Cutting machine generator & Item of machinary, including Cost of blade coolant ect. including Cleaning of groove and providing Sand and hot bitumen fillers and filler metal etc Including Cost of Conveyance of all materials labour, Loard and lift Charges and all other incidental charges as per drawings and as per Specifications for Concrete pavement (P- 21 No. 22.8.1) SR 2014-15	16	4.50			72.0 @ 130.34 = 70.0	9124=00
(8)	Earthwork excavation for foundation of buildings Culverts, water supply Sanitary lines and electrical Conduits either in pits or trenches 1.5m and above in ordinary soil not exceeding 1.5m in depth including dressing the bottom						

M.A.R. 57 (R

Measuremen

Serial No.....

Name of work.....From.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dime	
		Number	Length
1	2	3	4
	and sides of pits and trench Soil Clear from edges of exc upto 50m. after breaking of Specifications No. KBS 2.1 ca		
	(1) Sampath Kumar House	1	
	(2) Gokkuru Main Road	1	5.0
	Qty limited @		

EASUREMENT BOOK

Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
ng for width of 5mm to 10mm and depth					
st of cutting machine generator & Hom Cost of blade coolant ect. including roviding Sand and hot bitumen fillers luding Cost of Conveyance of all materials ft Charges and all other incidental ngs and as per Specifications for 21 No. 22.8.1) SR 2014-15					
16	4.50			72.0 @ 130.34 = 70.0	9124=00
for foundation of buildings y Sanitary lines and ither in pits or trenches 1.5m any soil not exceeding 1.5m overing the bottom					

M.A.R. 57 (Rule 116)

Measurement Book No. A/11 192043

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. after breaking of Clods Complete as per Specifications No. KBS (2.1 (a) 2.3.5 (P. 5, I. No. 2.3)						
	CD1 Sampath Kumar House	1	5.0	1.8	2.0	= 10.80	
	CD2 Chikkanna Main Road	1	5.0	1.8	2.0	= 10.80	
						21.60	
	Qty limited for 16.20 cum @ Rs 184.74						Rs 2993=00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(9)	providing and laying in position plain cement Concrete of mix M10 with opc Cement @ 220 kg with 40mm and down size graded granite metal Coarse aggregates @ 0.892 Cum and fine agg @ 0.465 Cum machine mixed Concrete laid in layers not exceeding 15 Cms thick well Compacted in foundations and plinth including Cost of all materials labour HOM of Machinary curing Complete KBS 4-1, 4-2, (P 12 IND-4-2) SR 2014-15						
	CD_1 Sampath Kumars House	1	5.0	1.80	0.20	1.80	
	CD_2 Jakkur main road slopping side ramp	1	5.0	1.80	0.20	1.80	
		2	5.0	2.2	0.30	6.60	
		2	5.0	2.2	0.30	6.60	
						16.80	
		Qty limited to 16.20 Cum					

M.A.R. 5

Measu

Serial No.....

Name of work.....From.

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number	L
1	2	3	
		16.20	
(10)	providing and Constructing g Stone masonry in foundati hammered dressed in Gau high bond Stones at two including Cost of materials as per Specifications KBS 5-1,13		
	CD_1 Sampath kumar	2	5
	CD_2 Jakkur Main Road	2	5

UREMENT BOOK

Dimensions			Contents	Reference to last Measurement
Length 4	Breadth 5	Depth 6	7	8
position plain cement				
th opc Cement @ 220 kg				
e graded granite metal				
2 Cum and fine agg				
ixed Concrete laid in				
5 cms thick well Compacted				
h including Cost of all				
of Machinary curing Complete				
2) SR 2014-15				
5.0	1.80	0.20	1.80	
5.0	1.80	0.20	1.80	
5.0	2.2	0.30	6.60	
5.0	2.2	0.30	6.60	
			16.80	
limited			16.20 cum	

M.A.R. 57 (Rule 116)

Measurement Book No. A/11 192044

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
			16.20 cm	@ 5314.79		Rs 86100 2 W	86091 - W
10	providing and Constructing granite/trap/basalt size Stone masonry in foundation with Cm 1:6 Stone hammered dressed in Courses not less than 20 cm high bond Stones at two m. apart in each Course including Cost of materials, labour, Curing Complet as per specifications KDS 5.1.13 (P. 23 INO. 5.6) SR 2011-12						
	CD_1 Sampath kumar House	2	5.0	0.60	0.60	3.60	
	CD_2 Jakkur Main Road	2	5.0	0.60	0.60	3.60	
						7.20	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
			7.2	Cum @	Rs 4026/-		28987=00
(11)	providing and removing Centring, Shuttering, Strutting propping etc. and removal of form work for foundations, footings, bases of Columns for mass Concrete including Cost of all materials Complete as per specification (KBS 4.6.2)(P&S 1 No. 4-28) (R 14-15)						
	CD1 Sampath kumar House	2	5.0	0.30	3.00		
		2	1.80	0.30	1.08		
		1	5.00	0.60	3.00		
	CD2 Jakkur Main Road	2	5.0	0.30	3.00		
		2	1.80	0.30	1.08		
		1	5.00	0.60	3.00		
					14.16 Sqm		
	Qty limited 9.59 Sqm @ Rs 248-22						Rs 2380=00

M.A.R. 5

Measu

Serial No.....

Name of work.....From

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number	L
1	2	3	
(12)	Providing and laying Cement		
	down size granite jelly of R		
	thick layers and well Compact		
	etc. including smooth finishi		
	and lift etc Complet. Rs		
	CD1 Sampath Kumar House	1	5
	CD2 Jakkur main Road	1	5

SUREMENT BOOK

Dimensions			Contents	Reference to last Measurement
Length 4	Breadth 5	Depth 6	7	8
		7.2 Cum @ Rs 4028/-		28987=00
+ Centring, Shuttering, & Strutting				C&FC
oval of form work for				
pages of Columns for mass				
of all materials Complete				
s 4.6.2) (P/S INO. 4.28) IR 14-15)				
5.0	0.30	3.00		
1.80	0.30	1.08		
5.00	0.60	3.00		
5.0	0.30	3.00		
1.80	0.30	1.08		
5.00	0.60	3.00		
		14.16 Sqm		
Limited 9.59 Sqm				Rs 2380=00
@ Rs 248.22				

M.A.R. 57 (Rule 116)

Measurement Book

No. A/11 192045

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(12)	Providing and laying Cement Concreted using 20mm and down size granite jelly of Rmc for RCC work laid in 15cm thick layers and well Compacted thoroughly vibrating curing etc. including smooth finishing in CM 1:3 with all leads and lift etc Complete (P/S INO. 4.49.1) ISR-14-15.						C&FC
	CD1 Sampath Kumar House	1	5.0	1.80	0.23	2.07	
	CD2 Jakkur Main Road	1	5.0	1.80	0.23	2.07	
						4.14 Cum	25819
			@ Rs 6136.55				Rs 25405.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(13)	Providing T.M.T steel reinforcement for RCC work including straightening, cutting, bending hooking placing in position, lapping and welding etc P. 19, I No. 4.46. SR 2014-15)						
	Qty recorded in this MB page no 192081-82 total Qty 408 Kg						
	Qty is limited				0.20 t @ Rs 82230.25		Rs 16446 /-
(14)	Providing ruled pointing to Coursed stone masonry with Cement mortar 1:3, 20mm deep after ruling joints to depth of 20mm finally trimming including Cost of materials P 109, I.No. 15.3) SR 2014-15)						
	CD1	2	5.0	0.75	7.5		
	CD2	2	5.0	0.75	7.5		
					15.0		
	Qty limited to 600 Sqm					Rq	578.00
		@	96.34				

Serial No.....

Name of work.....

Name of Contractor of nature of Agency

Date of commencement of work.....

Date	Full description, etc, of work
1	2
(15)	lead for disposal of ... Carriage rates by the ... Unloading from ...
	Drain desilts

MC & FC

25/4/15

REMENT BOOK

Dimensions			Contents	Reference to last Measurement
Length 4	Breadth 5	Depth 6	7	8
einforcement for RCC				
g, Cutting, bending hooking				
and welding etc				
-15)				
ed in this MB page no 192081-82				
al Qty 408 Kg				
imited 0.20 t @ Rs 82230.25				Rs 16446 /-
to Coursed stone masonry				
0mm deep after sufficient				
n finely hing including				
I.N. 15.3) SR 2014-15)				
5.0	0.75	7.5		
5.0	0.75	7.5		
		15.0		
l to 6.00 Sqm				
96.34				
			Rs	578.00

M.A.R. 57 (Rule 116)

Measurement Book No. A/11 192046

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(15)	lead for disposal of debris shall be payable at carriage rates by mechanical loads. Loading and unloading from 0.00 to 5.00 Km (V.141)						
			Qty Item no (1)			67.08	
			Qty Item no (8)			21.60	
	Drain desilts	2	350	0.60	0.60	252.00	
		2	380	0.60	0.60	273.60	
		2	365	0.60	0.60	262.80	
						877.08	
	MC&FC Ry all 25/4/15		Qty limited to 869.88 Cum @ 85/-				Rs 73940.00

MEASUREMENT BOOK

BA/38/30.4.15

Serial No.....

Name of work.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
~~16~~	~~Third party inspection Charges 1%.~~						~~Rs 5776=11~~
							Total Amount Rs ~~605601=00~~ 6066.71
							Temp JE W7. 25/4/15.
	Certificate:-						
	① This is certified that the above said work is Completed, Satisfactorily						
	② Work done by with in the BBMP limits						
							Temp JE W7 25/4/15
							25/4/15

Date	Full description, etc, of work	Numb
1	2	3

Audited & Admitted to Rs 6066.71 (Six thousand sixty six and paise seventy one only)

5620.80 - 0

and Rs 445.91 - 0

Accts Suoot. Exe

Byatarayanapura Dn. Byatara

BBMP

ASUREMENT BOOK

ber	Dimensions: Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
Charges-1%.					~~Rs 5776=71~~
				Total Amount Rs	~~605601=00~~ 6066.71
				Thimmaiah JE / I. W7. 25/4/15.	
t the above said Satisfactorily in the BBMP limits					
				Thimmaiah JE / I. W7. 25/4/15	
					25/4/15

B2/38/30-4-15

M.A.R. 57 (Rule 116)

Measurement Book No. A/11 192047

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
						Total Rs: 6.0667/-	
						ST - 6067-00	
						VAT - 24267-00	
						CEH - 6067-00	
						CBF - 607-00	
						LR - 7583-00	
						Add 4459/-	
						Cheques 562080-00	

Audited & Admitted to Rs 6066.71/-

562080-0 By Cheques

and Rs 4459/- By Cash

Accts Supdt. Byatarayanapura Dn. BBMP

Exe. Engineer Byatarayanapura Dn. BBMP.